$$d = \sqrt{(4-1)^2 + (4-1)^2} d = \sqrt{(6-4)^2 + (2-4)^2}$$

$$= \sqrt{9+9}$$

$$= \sqrt{18}$$

- 17. Find the *perimeter* of $\triangle ABC$ where A(1, 1), B(4, 4), C(6, 2) are the vertices of a right triangle. Round to the nearest tenth if needed. $\sqrt{18} + \sqrt{8} + \sqrt{20} \approx 12.17$
- 18. The volume of a solid gold statue can be approximated as 1000 cm³. If the density of gold is about 20 g/cm³, what is the mass of the statue?

19.

	Owns a Car	Does Not Own a Car	TOTAL
Junior	6	(10)	16
Senior	12	8	20
TOTAL	18	18	36

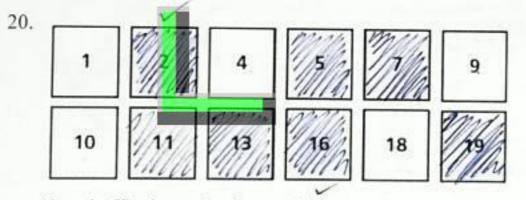
Use the table to find the probability that the student is a Junior and does NOT own a car?

	/		_
(A.	5/18	
	В.	1/2	

 $\frac{10}{36} = \frac{5}{18}$

C. 5/9

D. 5/8



You shuffle the cards shown above and choose one at random. What is the probability that you choose a gray card or an even number?

$$\frac{7}{12} + \frac{5}{12} - \frac{2}{12} = \frac{10}{12} = \frac{5}{6}$$